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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | ATTORNEY'S DOCKET NUMBER<br>AOY-3989US<br><b>10/528548</b><br>U.S. APPLICATION NO. (If known, see 37 CFR 1.5) |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/013599  | INTERNATIONAL FILING DATE<br>24 October 2003 (24.10.2003) | PRIORITY DATE CLAIMED<br>28 October 2002 (28.10.2002)   |
| TITLE OF INVENTION <b>ELECTRON BEAM EXPOSURE METHOD AND ELECTRON BEAM EXPOSURE SYSTEM</b>   |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>Eiichi ITO; Masahiko TSUKUDA</b>  |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.<br>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))<br>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<br>a. <input checked="" type="checkbox"/> is attached hereto.<br>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input checked="" type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).<br>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).<br> |   |   |
| <b>Items 11 to 20 below concern document(s) or information included:</b><br>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input checked="" type="checkbox"/> A preliminary amendment.<br>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.<br>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).<br>20. <input checked="" type="checkbox"/> Other items or information: <b>Certificate of Express Mail; copy of PCT Publication Cover Sheet; PTO 2038</b>   |   |   |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|--|--------------|--|---------|--|--------------|
| U.S. APPLICATION NO. <b>107328548</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/013599                               |         | ATTORNEY'S DOCKET NUMBER<br>AOY-3989US |              |
| The following fees have been submitted   |              |  |         | CALCULATIONS                           | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee..... \$300  |              |  |         | \$ 300                                 |              |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of<br>PCT Article 33(1)-(4)..... \$100<br>All other situations..... \$200   |              |  |         | \$ 200                                 |              |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an<br>International Searching Authority..... \$100<br>International Search Report prepared and provided to the Office..... \$400<br>All other situations..... \$500   |              |  |         | \$ 400                                 |              |
| TOTAL OF 21, 22 and 23 =   |              |  |         | \$ 900                                 |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding<br>sequence listing or computer program listing filed in an electronic medium).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |  |         |  |              |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction<br>thereof (round up to a whole number) | RATE    |  |              |
| - 100 =  | /50 =        |  | x \$250 | \$                                     |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest<br>claimed priority date (37 CFR 1.492(e)).  |              |  |         | \$                                     |              |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA   | RATE    | \$                                     |              |
| Total claims   | 16 - 20 =    | 0  | x \$ 50 | \$                                     |              |
| Independent claims   | 2 - 3 =      | 0  | x \$200 | \$                                     |              |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |  | + \$360 | \$                                     |              |
| TOTAL OF ABOVE CALCULATIONS =  |              |  |         | \$ 900                                 |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |  |         |  |              |
| SUBTOTAL =   |              |  |         | \$ 900                                 |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest<br>claimed priority date (37 CFR 1.492(f)).   |              |  |         | +                                      | \$           |
| TOTAL NATIONAL FEE =   |              |  |         | \$ 900                                 |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied<br>by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |  |         | +                                      | \$ 40        |
| TOTAL FEES ENCLOSED =  |              |  |         | \$ 940                                 |              |
|  |              |  |         | Amount to be<br>refunded:              | \$           |
|  |              |  |         | Amount to be<br>charged:               | \$ 940       |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br/>A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t<br/>Account No. <u>18-0350</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not<br/>be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed<br/>and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p><input checked="" type="checkbox"/> Customer Number <u>23122</u></p> <p>OR</p> <p><input type="checkbox"/> Ratner Prestia, P.O. Box 980, Valley Forge, PA 19482</p> <p><input type="checkbox"/> RatnerPrestia, P.O. Box 1596, Wilmington, DE 19899</p> <p>Date: <u>March 21, 2005</u></p> |              |  |         |  |              |
|  |              |  |         | SIGNATURE<br>Lawrence E. Ashery        |              |
|  |              |  |         | NAME<br>34,515                         |              |
|  |              |  |         | REGISTRATION NUMBER                    |              |

10/528548

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): E. Ito et al.

JCO5 Rec'd PCT/PTO

Docket No.

21 MAR 2005  
AOY-3989US

| Serial No.<br>To Be Assigned | Filing Date<br>Herewith | Examiner | Group Art Unit |
|------------------------------|-------------------------|----------|----------------|
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Invention: ELECTRON BEAM EXPOSURE METHOD AND ELECTRON BEAM EXPOSURE SYSTEM

I hereby certify that the following correspondence:

PCT National Stage Application with PTO Form 1390 and its enclosures

*(Identify type of correspondence)*

Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:

Mail Stop PCT,  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  
on March 21, 2005Kathleen Libby*(Typed or Printed Name of Person Mailing Correspondence)*  
*(Signature of Person Mailing Correspondence)*EV 447719541 US*("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**